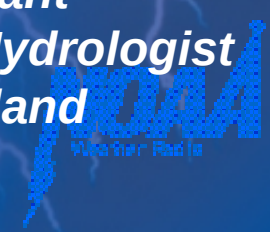


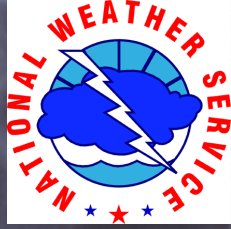
What's New this Winter

NWS Weather and Water Workshop September 17, 2008

*Tyree Wilde
Warning Coordination Meteorologist
NWS Portland*

*Andy Bryant
Senior Service Hydrologist
NWS Portland*





Outline

- NWS Mobile Application
- IEM Chat
- Winter Storm Bulletins – A change from previous years
- GIS & NWS weather data





Exciting Times in History

Promontory Point, UT 1869



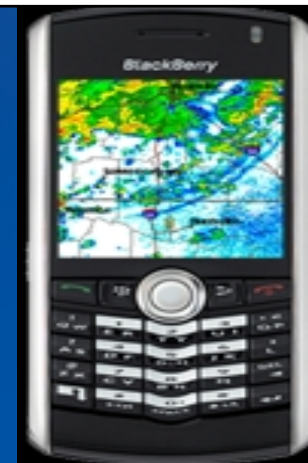
Model T: 1908-1927

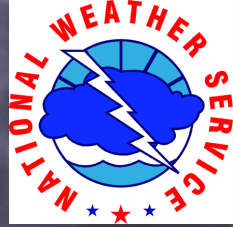


July 20, 1969



Twenty-First Century



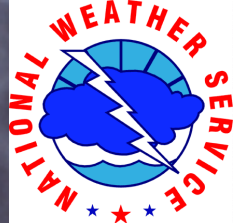


New Advances in Communication

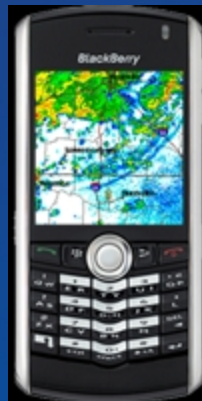
- Rapid advances in communication technology
- Re-think how we communicate and disseminate information
- Developing new applications to take advantage of rapidly changing communication technology
- Exploiting new technologies
 - *Making an investment for the future*



NWS Mobile



- Targeted at community decision makers, and news media
- Weather at your fingertips!
- Weather alerts on your PDA
- Radar imagery on your PDA
- *Just Released*
 - Ready for Community Decision Makers



NOAA NWS-Mobile Home Products Contact News My Mobile Alerts Register

The NWS-Mobile products are the next-generation National Weather Service applications, bringing weather alerts and information directly to your mobile device.

Our Products

- Ma Mobile Alerts
- Mc Mobile Client
- Mw Mobile Web
- Im IEMChat to Mobile
- Av Aviation

NWS-Mobile products are designed to bring critical weather data and automatic alerts to your cellular phone.

Mobile Alerts Login

Phone Number:

Password:

[Sign In](#)

[New? Register Here!](#)

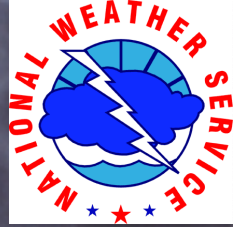
This is an experimental NWS service - These applications are undergoing testing and development by the NWS and collaborators. Public use is not supported at this time.

NOAA/NWS Home Products Contact News My Account Disclaimer Privacy Policy About Us

<http://nwsmobile.wrh.noaa.gov/>



NWS Mobile – *interactive NWS* (iNWS)



- New webpage debuted just a few days ago

interactiveNWS

home • products • news • my iNWS • register • contact

Phone:

Password:

Log In

[Forgot your password?](#)
[New? Register Here!](#)

products

- iNWS SMS
text message alerts
- iCWSU
mobile aviation page
- NWS MobileWeb
mobile weather page
- iNWS Mobile
prototype cell phone app

What is iNWS?

iNWS is the home of the new mobile and desktop innovations of the National Weather Service. Through the products developed within iNWS, we hope to protect life and property through new forms of technology and communication to better fit the changing world.

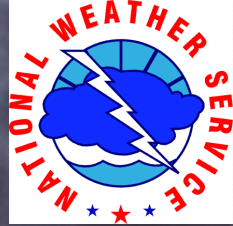
© 2008 National Weather Service

[home](#) • [products](#) • [news](#) • [my iNWS](#) • [register](#) • [contact](#) • [disclaimer](#) • [privacy policy](#)

<http://nwsmobile.wrh.noaa.gov>



NWS Mobile Alerts



- Allows users to configure and receive Text Message Alerts when the NWS issues a watch, warning, or advisory that affects you
- Users can set up personal profile and configure their alert preferences geographically and by weather phenomena

- ✓ Winter Weather
- ✓ Wind Storms
- ✓ Severe Weather
(severe thunderstorm, tornado)
- ✓ Flooding
- ✓ Fire Weather
- ✓ Marine Weather

NWS-Mobile

Home • Products • Contact • News • My Mobile Alerts • Register

The NWS-Mobile products are the next-generation National Weather Service applications, bringing weather alerts and information directly to your mobile device.

Our Products

- Ma Mobile Alerts
- Mc Mobile Client
- Mw Mobile Web
- Im IEMChat to Mobile
- Av Aviation

NWS-Mobile products are designed to bring critical weather data and automatic alerts to your cellular phone.

Mobile Alerts Login

Phone Number:

Password:

[Sign In](#)

[New? Register Here!](#)

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NOAA/NWS

Home • Products • Contact • News • My Account • Disclaimer • Privacy Policy • About Us

<http://nwsmobile.wrh.noaa.gov/>



NWS Mobile Client



- Allows users to browse webpages for the following weather data via their PDA/Smart phone

- ✓ Satellite imagery
- ✓ Radar imagery
- ✓ Forecasts
- ✓ Observations

- Requires JAVA enabled mobile device

The screenshot shows the NWS Mobile website interface. At the top, there is a navigation bar with links: Home, Products, Contact, News, My Mobile Alerts, and Register. Below the navigation bar is a large image of a stormy landscape with a rainbow. The main heading reads: "The NWS-Mobile products are the next-generation National Weather Service applications, bringing weather alerts and information directly to your mobile device." Below this, there are two main sections: "Our Products" and "Mobile Alerts Login".

Our Products

- Ma** Mobile Alerts
- Mc** Mobile Client
- Mw** Mobile Web
- Im** IEMChat to Mobile
- Av** Aviation

Mobile Alerts Login

Phone Number:

Password:

[New? Register Here!](#)

NWS-Mobile products are designed to bring critical weather data and automatic alerts to your cellular phone.

This is an experimental NWS service. - These applications are undergoing testing and development by the NWS and collaborators. Public use is not supported at this time.

At the bottom, there is a footer with links: NOAA/NWS, Home, Products, Contact, News, My Account, Disclaimer, Privacy Policy, About Us.

<http://nwsmobile.wrh.noaa.gov/>



NWS Mobile Web



- Use your phone's web browser to access NWS mobile web at :

<http://mobile.wrh.noaa.gov>

- Search by zip code, city, state
 - ✓ Current watches, warnings, and advisories
 - ✓ Current conditions Radar imagery
 - ✓ Satellite imagery
 - ✓ Forecast information

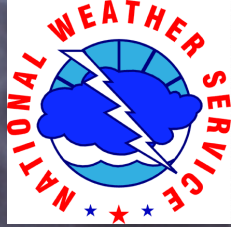
NWS-Mobile Home • Products • Contact • News • My Mobile Alerts • Register

The NWS-Mobile products are the next-generation National Weather Service applications, bringing weather alerts and information directly to your mobile device.

Our Products	Mobile Alerts Login
Ma Mobile Alerts	Phone Number: <input type="text"/>
Mc Mobile Client	Password: <input type="password"/>
Mw Mobile Web	<input type="button" value="Sign In"/>
Im IEMChat to Mobile	New? Register Here!
Av Aviation	This is an experimental NWS service - These applications are undergoing testing and development by the NWS and collaborators. Public use is not supported at this time.

NOAA/NWS Home • Products • Contact • News • My Account • Disclaimer • Privacy Policy • About Us

<http://mobile.wrh.noaa.gov/>



NWS Mobile

- How do I get Started?
- Register and/or login at the following URL:
 - ✓ <http://nwsmobile.wrh.noaa.gov/user/register>
- Once you are logged in, you can configure your alert preferences and more
- Need PDA or Smart Phone that is JAVA enabled
- Free!





IEM Chat Project

- Chat Room
- Real-time collaboration with operational meteorologists
- Success in southern US with Media
 - real time interaction during severe weather
- We are looking to prototype with customer(s) / agency this winter

Conversation Options Send As
DVN ARX DMX
Topic: Welcome to IEMChat Project
and continuing that warning over into Keokuk County?
(2005-06-13 22:28:38) nwsdvn3: Will be discussing/deciding that soon kwel
(2005-06-13 22:29:49) iembot: MCD! <http://www.spc.noaa.gov/products/mcd/>

Homepage Getting Started Documentation Online Tools Policy Contacts

The IEM Chat Project is an effort to support the realtime collaboration of operational meteorologists. The National Weather Service (NWS) is **not** affiliated with this project, but some forecast offices do voluntarily participate.

Getting Started

1. [Create a Jabber account](#)
2. Download a Jabber chat client:

	Pidgin: Download as Windows EXE -or- zip file
	Adium
	Your distribution likely has Pidgin installed.
Mobile/PDA	Configuring Imov howto: doc file or PDF Oetro for Windows Mobile Vayusphere for BlackBerry™ WebMessenger for BlackBerry™

*Note there are many other Jabber clients know to work with iemchat.

- 3. Configure your Jabber chat client:
[Configuring Pidgin](#)
[Configuring Adium](#)

Getting Help & Documentation

Access Online Tools

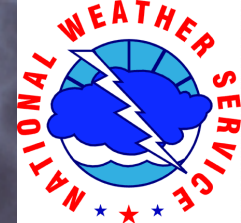
User: @iemchat.com

Password:

Current Users in Chatrooms:

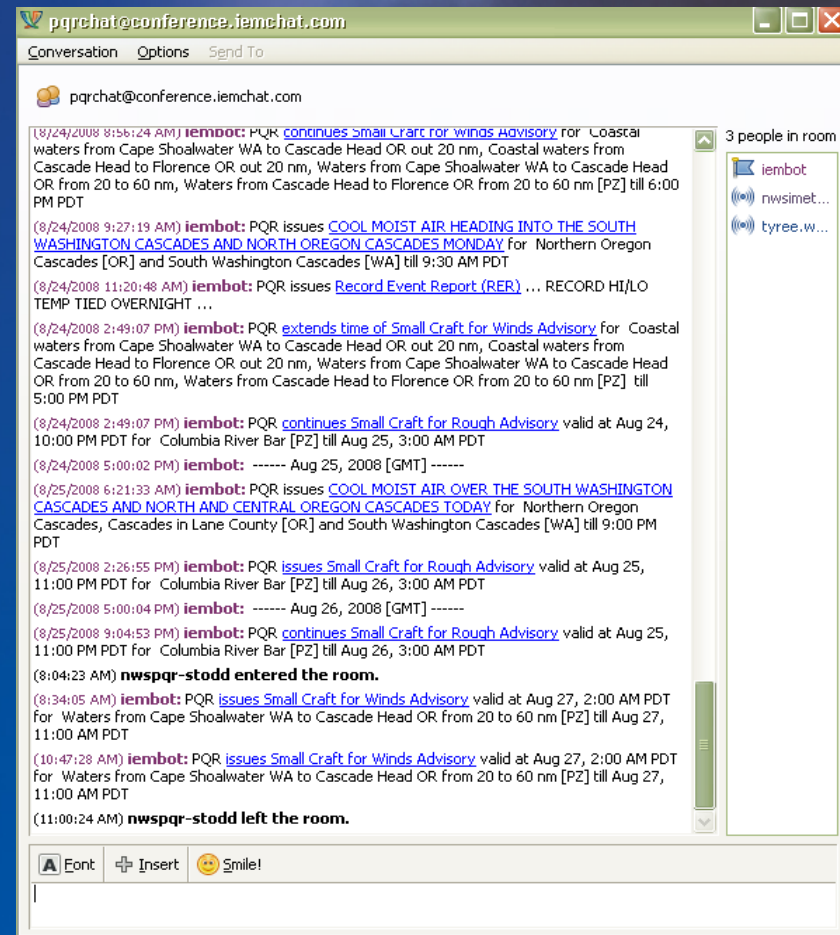
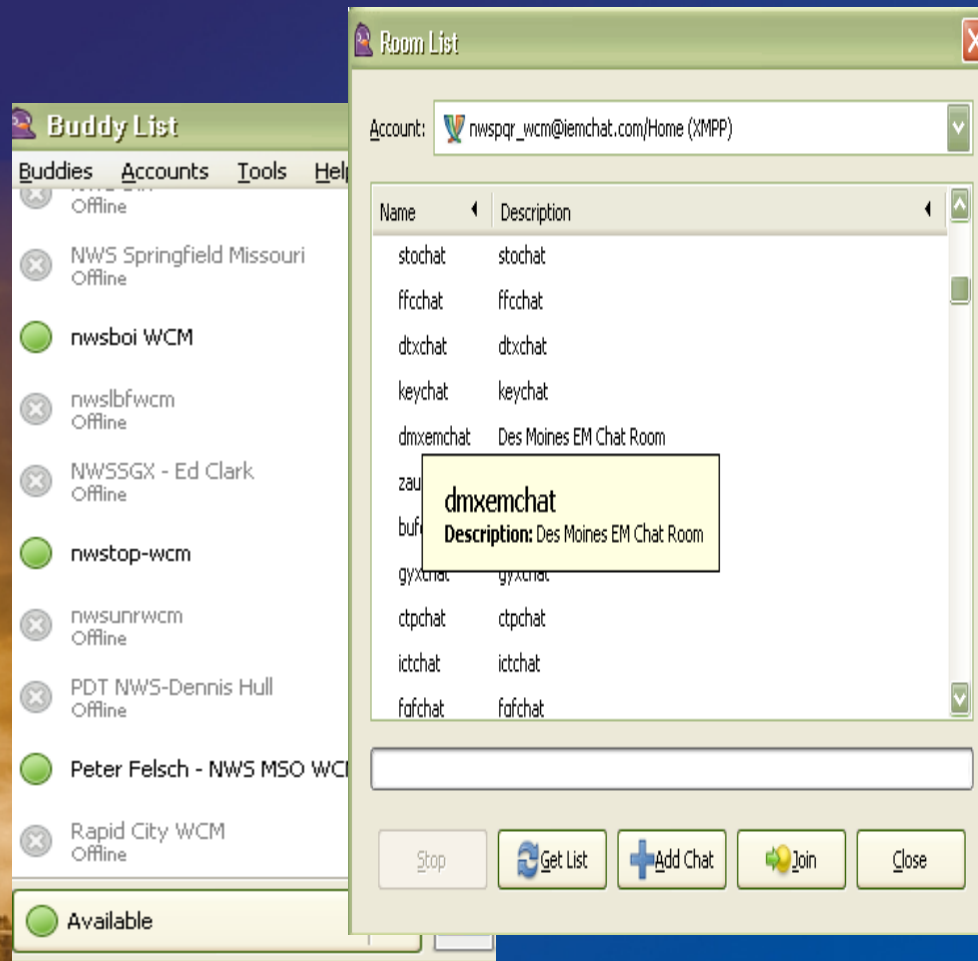
(click map for live view)

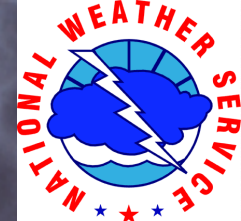
<https://iemchat.com/>



IEM Chat

- Chat Room
- Multiple Chat Rooms
- IEM Bot
- Record and hyperlink to any warning product





Bonus Feature – IEM Bot

- IEM Bot
- Record and hyperlink to any warning product

pqrchat@conference.iemchat.com

Conversation Options Send To

pqrchat@conference.iemchat.com

3 people in room

iembot
nwspqr-stodd
tyree.wilde

(8/31/2008 3:20:19 PM) iembot: EUGENE/MAHLON SWEET,OR (EUG) ASOS reports Tornado

KEUG 312217Z 32014G30KT 5SM FC RA BKN039CB BKN048 14/09 A3005

(8/31/2008 3:22:10 PM) iembot: EUGENE/MAHLON SWEET,OR (EUG) ASOS reports Funnel

KEUG 312220Z 35014G25KT 35M R16R/4500VP6000FT RA BKN039CB BKN048 13/09 A3005 RMK FUNNEL CLOUD B16 FUNNEL CLOUD E19 AO2 PK WND 36030/2210 RAB14 PRESRR P0004

(8/31/2008 3:30:09 PM) iembot: EUGENE/MAHLON SWEET,OR (EUG) ASOS reports Funnel

KEUG 312227Z 04011G19KT 2 1/2SM R16R/4500VP6000FT +RA BKN039 OVC048 12/09 A3005 RMK FUNNEL CLOUD B16 FUNNEL CLOUD E19 AO2 PK WND 36030/2210 VIS 1 1/2 RNW 34 RAB14 P0015

(8/31/2008 3:37:14 PM) iembot: PQR issues [FUNNEL CLOUD AND BRIEF TORNADO TOUCHDOWN REPORTED NEAR THE EUGENE AIRPORT](#) for Greater Portland Metro Area, Central Willamette Valley, South Willamette Valley, Western Columbia River Gorge, Northern Oregon Cascade Foothills, Cascade Foothills in Lane County [OR] and Greater Vancouver Area, South Washington Cascade Foothills, Western Columbia River Gorge [WA] till 6:00 PM PDT

(8/31/2008 3:38:10 PM) iembot: EUGENE/MAHLON SWEET,OR (EUG) ASOS reports Funnel

KEUG 312235Z 05006KT 35M RA BKN032 OVC050 13/10 A3004 RMK FUNNEL CLOUD B16 FUNNEL CLOUD E19 AO2 PK WND 36030/2210 VIS 2 1/2 RNW 34 RAB14 P0019

(8/31/2008 3:56:15 PM) iembot: EUGENE/MAHLON SWEET,OR (EUG) ASOS reports Funnel

KEUG 312254Z 11003KT 10SM SCT021 BKN034 OVC060 15/10 A3004 RMK FUNNEL CLOUD B16 FUNNEL CLOUD E19 AO2 PK WND 36030/2210 RAB14E50 SLP173 P0020 T01500100

(8/31/2008 4:22:33 PM) iembot: PQR issues [Record Event Report \(RER\)](#) ... RECORD LOW TEMPERATURE SET AT EUGENE ...

(8/31/2008 5:00:03 PM) iembot: ----- Sep 01, 2008 [GMT] -----

(8/31/2008 8:10:21 PM) iembot: PQR issues [FUNNEL CLOUD AND BRIEF TORNADO TOUCHDOWN SOUTHEAST OF OREGON CITY NEAR BEAVERCREEK](#) for Central Willamette Valley, Greater Portland Metro Area, Northern Oregon Cascade Foothills [OR] till 9:15 PM PDT

Font Insert Smile!

NWS Mobile Web National Weather Service - Directives MetEd: W

862
WWUS86 KPQR 312237
SPSPQR

SPECIAL WEATHER STATEMENT
NATIONAL WEATHER SERVICE PORTLAND OR
337 PM PDT SUN AUG 31 2008

ORZ006>010-012-WA2023-039-040-010100-
GREATER PORTLAND METRO AREA-CENTRAL WILLAMETTE VALLEY-
SOUTH WILLAMETTE VALLEY-WESTERN COLUMBIA RIVER GORGE-
NORTHERN OREGON CASCADE FOOTHILLS-
CASCADE FOOTHILLS IN LANE COUNTY-GREATER VANCOUVER AREA-
SOUTH WASHINGTON CASCADE FOOTHILLS-
INCLUDING THE CITIES OF...HILLSBORO...PORTLAND...OREGON CITY...
GRESHAM...SALEM...MCMINNVILLE...DALLAS...EUGENE...CORVALLIS...
ALBANY...HOOD RIVER...CASCADE LOCKS...MULTNOMAH FALLS...SANDY...
SILVER FALLS STATE PARK...SWEET HOME...VIDA...LOWELL...
COTTAGE GROVE...STEVENSON...SKAMANIA...VANCOUVER...
BATTLE GROUND...WASHOUGAL...TOUTLE...ARIEL...COUGAR
337 PM PDT SUN AUG 31 2008

...FUNNEL CLOUD AND BRIEF TORNADO TOUCHDOWN REPORTED NEAR THE
EUGENE AIRPORT...

EUGENE AIRPORT TOWER PERSONNEL REPORTED A FUNNEL CLOUD BEGINNING
ABOUT 316 PM THIS AFTERNOON. THEY INDICATED THERE WAS A BRIEF
TOUCHDOWN IN A NEARBY FIELD THAT THEN LIFTED UP AND DISSIPATED.

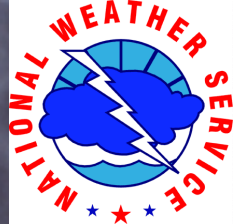
THE AIR MASS OVER THE INLAND PORTIONS OF SOUTHWEST WASHINGTON AND
NORTHWEST OREGON IS UNSTABLE THIS AFTERNOON AND EVENING DUE TO AN
UNSEASONABLY COOL UPPER TROUGH OVER THE REGION. THIS IS BEING
AIDED BY A STRONG UPPER LEVEL JET STREAM. A FEW THUNDERSTORMS WILL
LIKELY CONTINUE THROUGH AT LEAST THE EARLY EVENING AND THE THREAT
OF ANOTHER FUNNEL CLOUD WILL REMAIN UNTIL AROUND SUNSET.

\$\$

FOR ADDITIONAL WEATHER INFORMATION...VISIT OUR WEB SITE AT
WWW.WEATHER.GOV/PORTLAND



IEM BOT



Iowa Environmental Mesonet
Iowa State University Department of Agronomy

[Iowa Mesonet](#) [Iowa CoCoRaHS](#) [Daily Erosion Project](#) [IEM Chat Project](#) [Iowa Road Conditions](#) [SchoolNet8.co](#)

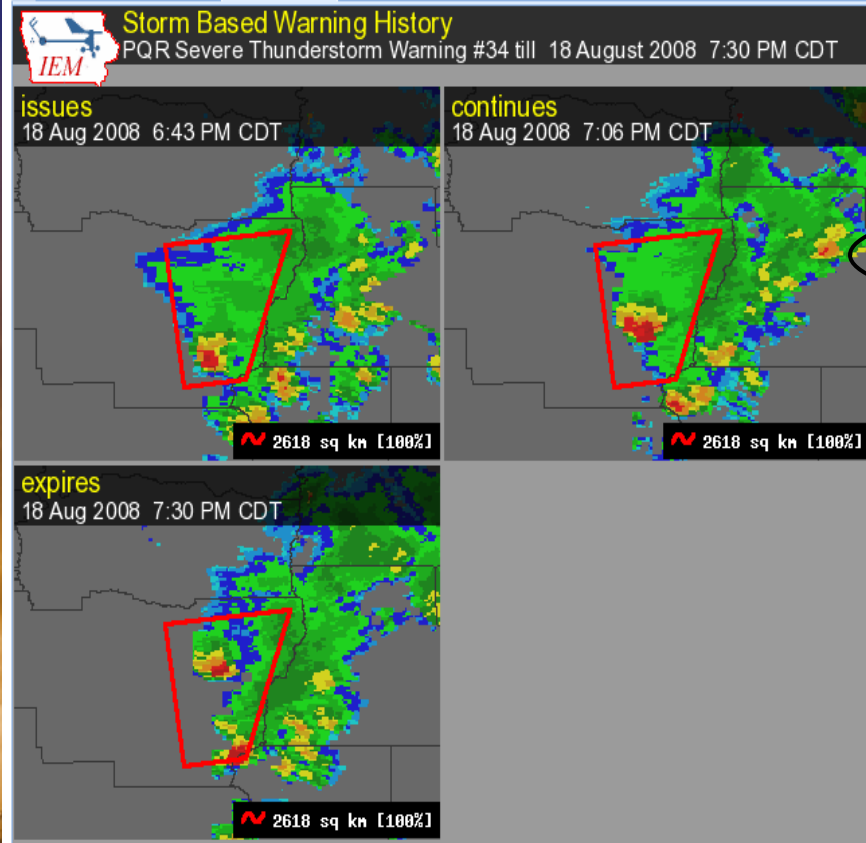
*Climodat reports are a great source of
Iowa climate data*

[Archive](#) [Current](#) [Climatology](#) [IEM Info](#) [IEM Networks](#) [GIS](#) [Severe Weather](#) [Web Cams](#)

[Mainpage](#) [IEM Cow](#) [iembot](#) [Interact Radar](#) [River Summary](#) [SPC Watches](#) [\[VTEC Browser \]](#)

Valid Time Extent Code (VTEC) Product Browser

[RADAR](#) [Google Map](#) [SBW History](#) [Storm Reports within Polygon](#) [All Storm Reports within Time Period](#) [Geogr](#)



[Iowa Mesonet](#) [Iowa CoCoRaHS](#) [Daily Erosion Project](#) [IEM Chat Project](#) [Iowa Road Conditions](#) [SchoolNet8.co](#)

Iowa Environmental Mesonet
Iowa State University Department of Agronomy

[View images from 20+ webcams](#)

[Archive](#) [Current](#) [Climatology](#) [IEM Info](#) [IEM Networks](#) [GIS](#) [Severe Weather](#) [Web Cams](#)

[Mainpage](#) [IEM Cow](#) [iembot](#) [Interact Radar](#) [River Summary](#) [SPC Watches](#) [\[VTEC Browser \]](#)

Valid Time Extent Code (VTEC) Product Browser

[RADAR](#) [Google Map](#) [SBW History](#) [Storm Reports within Polygon](#) [All Storm Reports within Time Period](#) [Geogr](#) [Product Overview](#)

Time	Event	Magnitude	City	County
2008-08-19 00:00	HAIL	1.75	10 Se Oakridge	Lane

NWS WFO:

Year:

Event ID: [Previous](#) 34 [Next](#)

Phenomena:

Significance:

Status: expires

Issued: 2008-08-18 23:43 GMT

Expires: 2008-08-19 00:30 GMT

Warning geography:

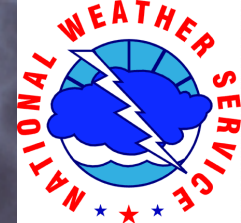
[Load Product](#)

Links:

[Polygon Verification](#)

[Download Shapefile of Warnings](#)

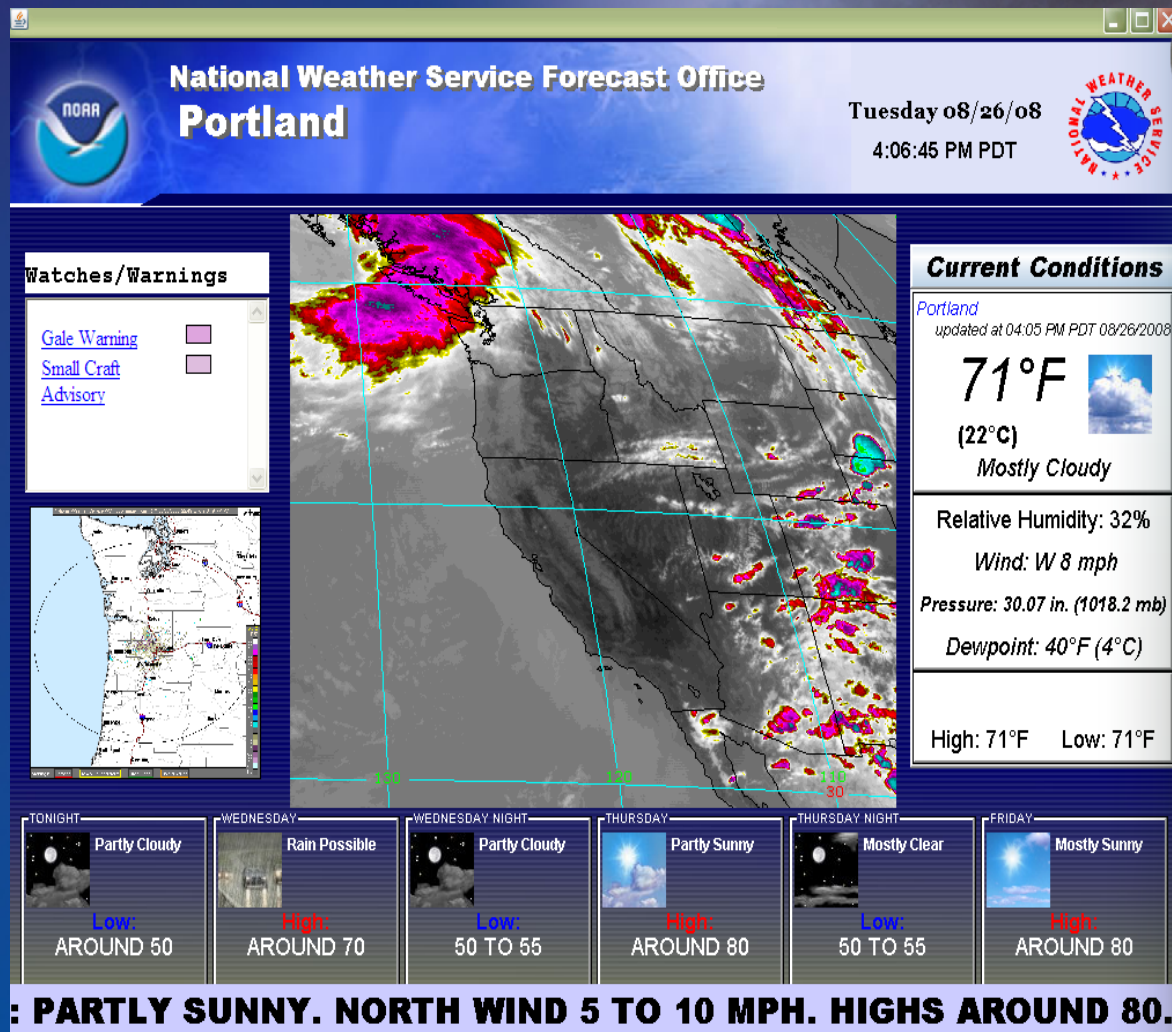
[Interactive RADAR Display](#)



FLARE

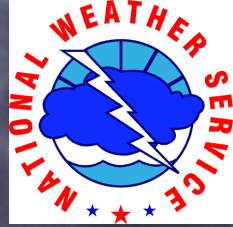
(Fully Localized Atmospheric Research Environment)

- Situational Awareness Display
 - ideal for EOCs
 - desktop weather display
- Free download from NWS
- Easy to setup/configure



Download: <http://www.wrh.noaa.gov/wrh/ssd/flare.msi>

Documentation: <http://www.wrh.noaa.gov/wrh/ssd/index-flare.msi>



Streamline Winter Products

Existing suite of Winter Advisories

Freezing Rain
Winter Weather
Snow
Snow & Blowing Snow
Sleet
Blowing Snow



New suite of Winter Advisories

Freezing Rain
Winter Weather

Existing suite of Winter Warnings

Blizzard
Ice Storm
Wind Chill
Winter Storm
Heavy Snow
Sleet



New suite of Winter Warnings

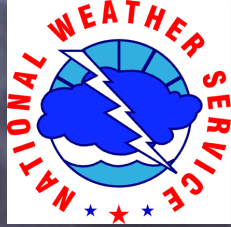
Blizzard
Ice Storm
Wind Chill
Winter Storm



GIS Applications

GIS & NWS Weather Data

Andy Bryant



GIS

(Geographic Information Systems) Applications & Resources

- Western Region GIS Compatible Digital Forecast Data in shapefile format
- NOAA nowCOAST web mapping portal
- Google Earth layers
- NOAA/NWS websites for GIS data



GIS Weather Data

Home

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Organization

Frequently Asked
Questions

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☐ ALL NOAA

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"City, St"

City, St

Go

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Forecasts

Weather Related
Information

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Regional Programs

Workshops

Education and
Training

Professional
Training

Online Publications

Educational
Resources

News

Administrative

Employment Opening

FAQ

Feedback



Update - 08/25/2008

2.5KM Hi Res GIS Compatible Digital Forecast Data

ask iconHelp and Information About This Service

Click on any map below for access to shapefiles for that domain.

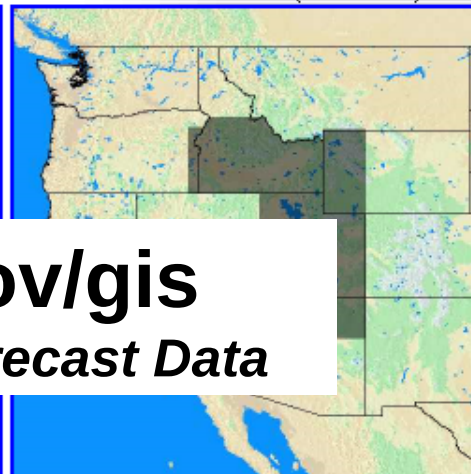
Boise, ID



Billings, MT



Eastern Great Basin GACC (Fire Center)



www.wrh.noaa.gov/gis
GIS shapefiles for Digital Forecast Data

Medford Oregon Area




North West GACC (Fire Center)



Portland, OR






National Weather Service Forecast Office

GIS Weather Data

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City, St
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Current Weather and Forecasts
Weather Related Information
Regional Information
Regional Divisions
Regional Programs
Workshops
Education and Training
Professional Training
Online Publications
Educational Resources
News
Administrative
Employment Opening
FAQ
Feedback


Update - 08/18/2008

2.5KM Hi Res GIS Compatible Digital Forecast Data For Portland, OR

Click Here for Information and Help

Color Scheme (.avl) Files

Shapefiles Created: 08/27/08 6:22am PDT

NOTE: File names are in Z (GMT) time.

Max/Min Temp and RH -by Forecast Day

- Day1 (Aug 27) 0.50MB
- Day2 (Aug 28) 0.51MB
- Day3 (Aug 29) 0.51MB
- Day4 (Aug 30) 0.51MB
- Day5 (Aug 31) 0.51MB
- Day6 (Sep 1) 0.50MB
- Day7 (Sep 2) 0.50MB
- Days 1-3 (zip file) 1.52MB
- All Days (zip file) 3.54MB

QPF/PoP -by Forecast Hour

- 00hr - 06hr (Aug 27 05am) 0.47MB
- 06hr - 12hr (Aug 27 11am) 0.47MB
- 12hr - 18hr (Aug 27 05pm) 0.47MB
- 18hr - 24hr (Aug 27 11pm) 0.47MB
- 24hr - 30hr (Aug 28 05am) 0.47MB
- 30hr - 36hr (Aug 28 11am) 0.47MB
- 36hr - 42hr (Aug 28 05pm) 0.47MB
- 42hr - 48hr (Aug 28 11pm) 0.47MB
- 48hr - 54hr (Aug 29 05am) 0.47MB
- 54hr - 60hr (Aug 29 11am) 0.47MB
- 60hr - 66hr (Aug 29 05pm) 0.47MB
- 66hr - 72hr (Aug 29 11pm) 0.47MB
- Hours 0-12 (zip file) 1.89MB
- All Hours (zip file) 5.64MB

Min RH Only -by Forecast Day

Wind Point Data (Spd&Dir) -by Forecast Hour

How to Make Wind Arrows (.pdf)

Wind Arrows Legend (.lyr)

- 00hr (Aug 27 05am) 0.26MB
- 03hr (Aug 27 08am) 0.26MB
- 06hr (Aug 27 11am) 0.26MB
- 09hr (Aug 27 02pm) 0.26MB
- 12hr (Aug 27 05pm) 0.26MB
- 15hr (Aug 27 08pm) 0.26MB
- 18hr (Aug 27 11pm) 0.26MB
- 21hr (Aug 28 02am) 0.26MB
- 24hr (Aug 28 05am) 0.26MB
- 27hr (Aug 28 08am) 0.26MB
- 30hr (Aug 28 11am) 0.26MB
- 33hr (Aug 28 02pm) 0.26MB
- 36hr (Aug 28 05pm) 0.26MB
- 39hr (Aug 28 08pm) 0.26MB
- 42hr (Aug 28 11pm) 0.26MB
- 45hr (Aug 29 02am) 0.26MB
- 48hr (Aug 29 05am) 0.26MB
- 51hr (Aug 29 08am) 0.26MB
- 54hr (Aug 29 11am) 0.26MB
- 57hr (Aug 29 02pm) 0.26MB
- 60hr (Aug 29 05pm) 0.26MB
- 63hr (Aug 29 08pm) 0.26MB
- 66hr (Aug 29 11pm) 0.26MB
- 69hr (Aug 30 02am) 0.26MB
- Hours 0-12 (zip file) 1.04MB
- All Hours (zip file) 6.27MB

3 Hour Temp,SkyCover,Wind,and RH -by Forecast Hour (MDT)

- 39hr (Aug 28 08pm) 0.53MB
- 42hr (Aug 28 11pm) 0.53MB
- 45hr (Aug 29 02am) 0.53MB
- 48hr (Aug 29 05am) 0.53MB
- 51hr (Aug 29 08am) 0.53MB
- 54hr (Aug 29 11am) 0.52MB
- 57hr (Aug 29 02pm) 0.53MB

GIS Weather Data for NW Oregon & SW Washington

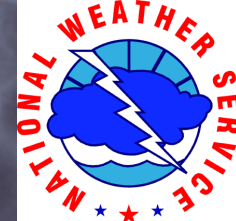
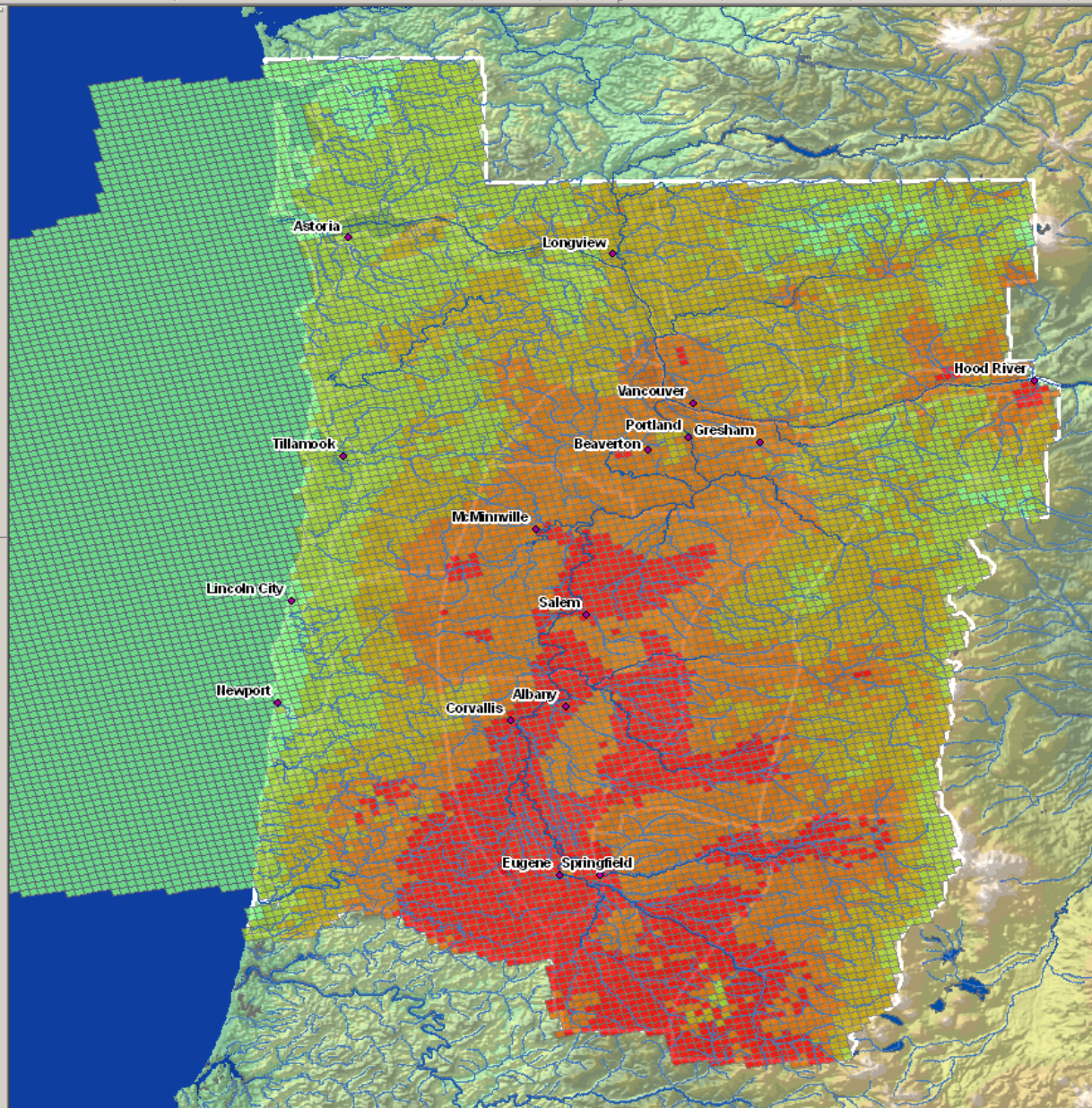
- Forecast Shapefiles available for the following weather elements:
 - Temperature
 - Humidity
 - Precipitation
 - Wind
 - Sky Cover
- Display and analyze data with other non-NWS data sets using GIS tools

www.wrh.noaa.gov

/gis

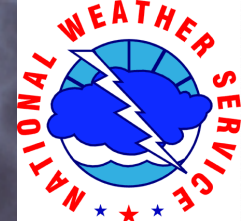
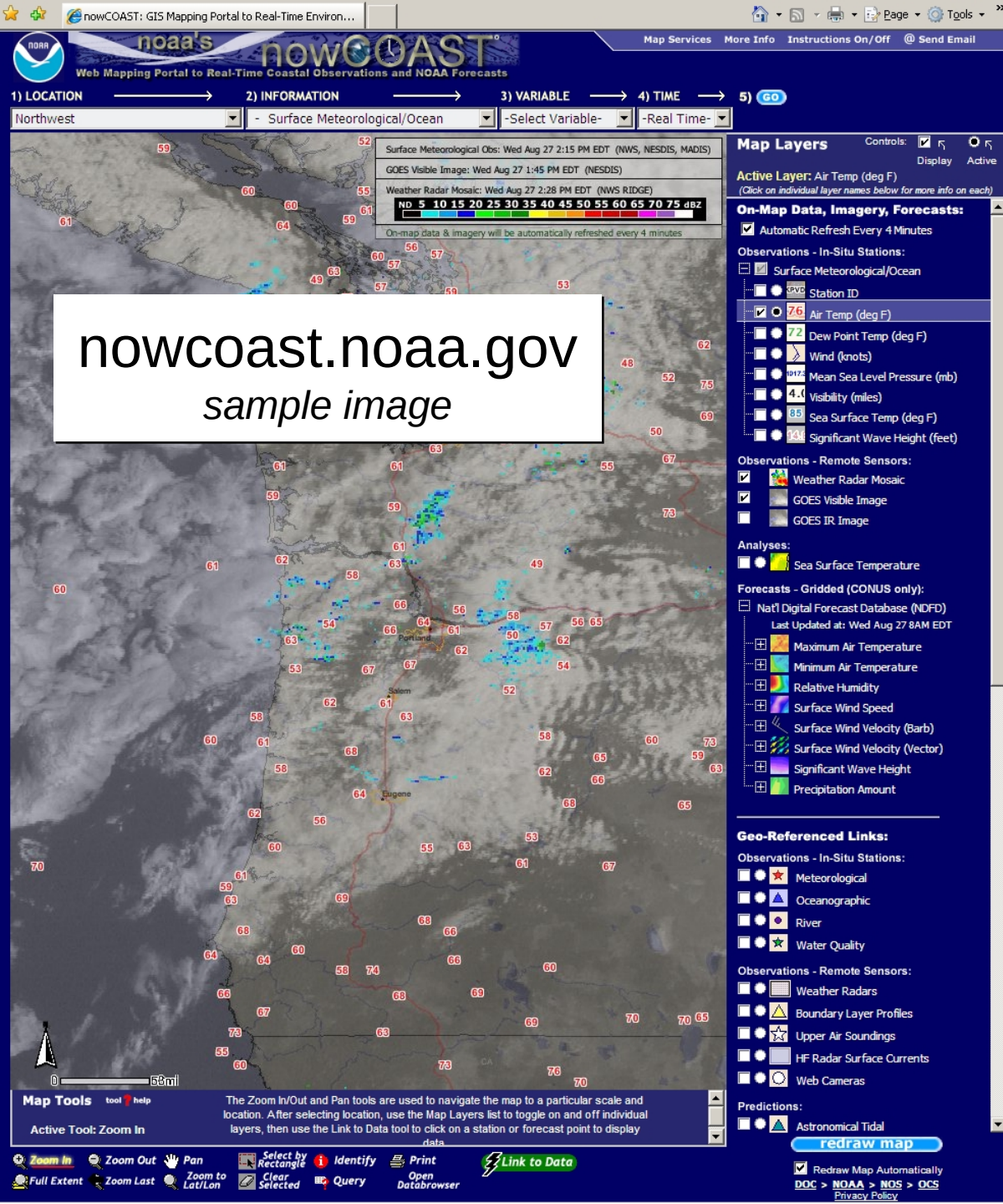
GIS shapefiles for Digital Forecast Data

- Layers**
- ☒ PQRcitiesMar15_2007 selection
 - ☐ PQRcitiesMar15_2007
 - ☒ Major Rivers
 - ☒ All Rivers
 - ☐ mmWx0827
 - ☒ mmWx0828
 - MaxTemp
 - 60 - 65
 - 66 - 72
 - 73 - 77
 - 78 - 81
 - 82 - 89
 - ☐ mmWx0829
 - ☐ QPF0830_06Z
 - ☒ Zone Boundaries
 - ☐ pqrmz
 - ☒ Bodies of Water
 - ☐ places
 - ☐ USA Thematic Maps
 - ☐ Streets
 - ☐ USGS NED For PQR
 - ☒ SRTM Elevation (Western N



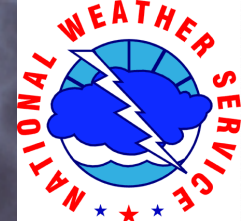
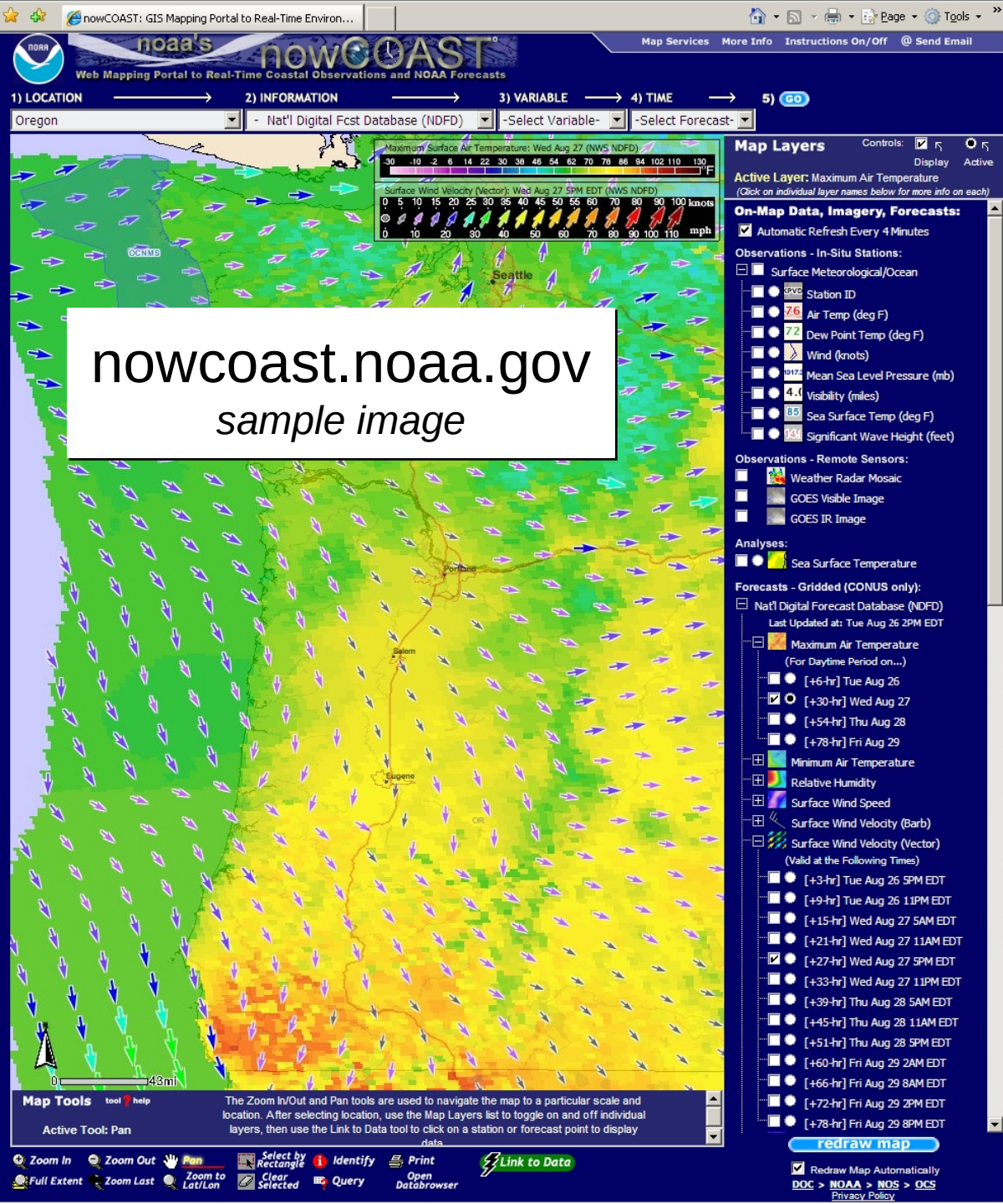
Display of
Max Temp
forecast grid

in ESRI
ArcMap



NOAA's nowCOAST

- Observed Data
 - Observed temp at primary obs sites
- GOES visible satellite image
- Mosaic of Doppler Radar reflectivity data



NOAA's nowCOAST

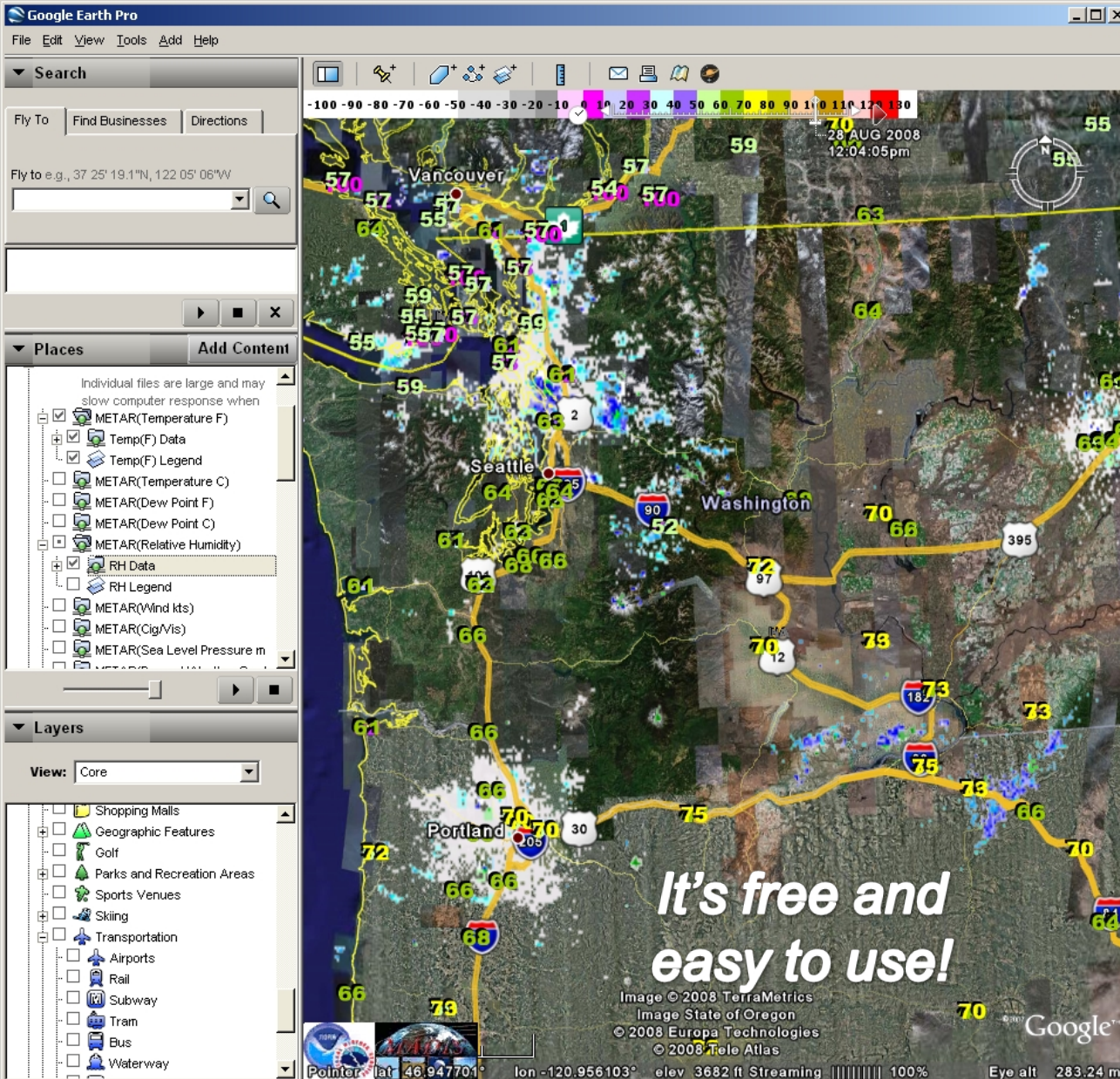
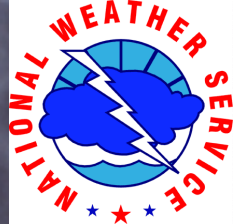
- NDFD forecasts from the NWS

- surface wind velocity, shown as vectors

- max temp forecast, shown as grid image



Google Earth



Snapshot of a basic Google Earth display showing:

- Composite reflectivity loop for PacNW radars
- Current temperature at primary weather stations



NWS KML/KMZ Links



Site Map

News

Organization

Search

Enter Search Here

Go

Local weather
forecast by "City, St"

City, St

Go

National Weather Data in GIS formats

www.srh.noaa.gov/gis/km

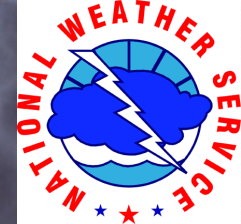
available data for Google Earth & ArcGIS

FME (Feature Manipulation Engine) that converts data in one format to another - KML file format support - (Purchase) - download from Safe.com

The following links will either provide kml/kmz/shape files, will link you to a page with these type of files, or displays info in a GIS viewer.

Current Weather	Forecasts	Past Weather
Watches & Warnings Current Weather Warnings Flash Flooding - Basins and Streams	Your Local Weather Forecast MOS Guidance GFS Meteograms GOES Sounding Skew-T Tulsa area: Max Min POP River Gage Forecasts	Doppler Radar NWS Radar archive data Normals, Means, Extremes NCDC Climate Atlas of the United States NCDC GIS Portal Severe Weather Storm Reports: Tornado, Wind and Hail 1950-2006 Database of Tornado, Large Hail, and Damaging Wind Reports Rain/Snowfall CoCoRaHS Observations NOHRSC Snow Data Hurricanes Past Atlantic Storm Tracks Past East Pacific Storm Tracks
Doppler Radar Real Time Radar Radar Locations		
Surface Observations Metar Obs RAWWS Obs APRSWXNET Obs MesoWest Obs Other Surface Obs		
Satellite Infrared Loop Visible Loop Water Vapor Loop		
Remote Gages River Gages: Observed Snow Gages: w/ labels w/o labels		
Great Lakes Wave Height Ice Water Temperature		
Surface Fronts Past and Present Synoptic Features		
	Fire Weather	Additional Info
	Current Spot Forecast Sites Fire Weather Categorized Observations MODIS fires IMET Locations	Coastal Estuarine Bathymetry nowCOAST web mapping portal

Click on a link to download a file. It should automatically open and load in Google Earth.

RSS Feeds **XML**Watches/Warnings
Current
By State/County
UV Alerts
more...Observations
Doppler Radar
Satellite
Snow Cover
Surface Weather
Observed Precip
more...Forecasts
By Local Office
Graphical
Aviation Weather
Marine Weather
Hurricanes
Severe Weather
Fire Weather
Numerical Models
Statistical Models
more...Text Messages
By State
By Message Type
NationalClimate
Past Weather
PredictionsWeather Safety
Weather Radio
Hazard Assessment
StormReady
TsunamiReady
more...Education/Outreach
Brochures
NOAA Education Page
Teacher's Aides
more...Information Center
Tsunamis
Publications
more...Contact Us
FAQ
Comments

RIDGE Display in GIS

Site Map

News

Organization

Search

RIDGE Image and Warning Output to KML/KMZ

www.srh.noaa.gov/ridge/kmzgenerator.php
available data for Google Earth & ArcGIS

Real-Time NWS Warnings

Single image by radar

Choose radar site:

Choose the radar image:

Single image loop by radar

(Viewer must support KML 2.1)

Choose radar site:

Choose the radar image:

All images for single radar

Choose radar site:

Multiple radars - Multiple images

(hold down the "Ctrl" key to make multiple selections)

Choose radar Site(s):

Alabama

Birmingham
 E. Alabama
 Fort Rucker
 Mobile
 Nrn. Alabama

Alaska

Bethel
 Fairbanks/Pedro Dome
 Kenai

Choose the radar image(s)

Short-Range Reflectivity
 Long Range Reflectivity
 Composite Reflectivity
 Velocity
 Storm Relative Motion
 1 Hour Precipitation
 Storm Total Precipitation
 Warnings

Single image statewide composite

Choose state:

Choose the radar image:

National & regional mosaics

Select the Conus or Sector:

National

Lower 48 States

Sectors

Northeast
 Southeast
 Central Great Lakes
 Lower Mississippi Valley
 Upper Mississippi Valley

Select the Product:

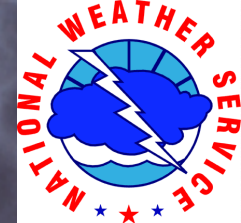
National & regional mosaic loops

(Viewer must support KML 2.1)

Select the Sector:

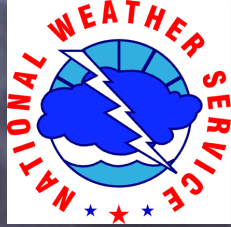
Sectors

Northeast
 Southeast
 Central Great Lakes
 Lower Mississippi Valley
 Upper Mississippi Valley
 Southern Plains
 Northern Rockies

Select the Product: 

RIDGE Radar and Warning Data

- Single Radar or composites of multiple radars
- Single images or loops
- NWS warning polygons
- Auto-updating of images



Summary of GIS Resources

- www.wrh.noaa.gov/gis
GIS shapefiles for Digital Forecast Data
- nowcoast.noaa.gov
on-line mapping portal for real-time data and forecasts
- www.srh.noaa.gov/gis/kml
data for Google Earth and ArcGIS
- www.weather.gov/gis
NWS GIS data portal
- www.nws.noaa.gov/geodata
static map background layers in GIS-compatible shapefile format



Questions ?

